

HIGH QUALITY FILM CAPACITORS

Surge provides a wide range of high quality film capacitors in many package styles including standard and miniature sizes. Each of the series described in the tables on this guide are manufactured in ISO-certified facilities for optimum quality and reliability.

As with all Surge products, these high-performance film capacitors operate across a wide voltage range, making them the perfect choice for consumer and industrial applications including lighting, security, and audio systems, telecommunications, and power supplies.



FEATURES:

- Wide Temp Range
- High Density Packaging
- Taped For Automatic Insertion
- Competitive Pricing
- Dipped Radial
- Molded Box Radial
- Wrap and Filled Axial
- Tight Tolerances Available
- Immediate Delivery



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POLYESTER FILM

SURGE SERIES	APPLICATION/FEATURE	LEAD TYPE	VOLTAGE RANGE (VDC)	CAPACITANCE RANGE (uF)	TEMPERATURE RANGE (C)
SEM	General Purpose, Commercial/Industrial Equipment	Radial	100 - 400	0.001 - 0.47 mfd	-40 - +85
SRP	General Purpose, Commercial/Industrial Equipment	Radial	100 - 400	0.001 - 0.47 mfd	-40 - +105
SAPR	General Purpose, Commercial/Industrial Equipment, Tape and Reel for Automatic Insertion	Axial	100 - 1000	0.01 - 1.0 mfd	-40 - +105

METALLIZED POLYESTER FILM

SURGE SERIES	APPLICATION/FEATURE	LEAD TYPE	VOLTAGE RANGE (VDC)	CAPACITANCE RANGE (uF)	TEMPERATURE RANGE (C)
SRM	General Purpose, Filtering, DC Blocking, Coupling, etc. Communication and Control Equipment	Radial	100 - 630	0.01 - 6.8 mfd	-55 - +125
SRMA	General Purpose, Filtering, DC Blocking, Coupling, etc. Communication and Control Equipment	Radial	100 - 630	0.01 - 6.8 mfd	-55 - +125
SAMR	General Purpose, Tape and Reel for Automatic Insertion	Axial	100 - 630	0.01 - 18.0 mfd	-55 - +125
SAM	General Purpose for Blocking and Coupling Circuits	Axial	100 - 630	0.01 - 18.0 mfd	-55 - +125
SMMY-5	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose Applications	Radial	63 - 100	0.001 - 1.0 mfd	-55 - +125
SMMY-7.5	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose Applications	Radial	63 - 630	0.001 - 1.0 mfd	-55 - +125
SMMY-10-27.5	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose Applications	Radial	63 - 1000	0.001 - 10 mfd	-55 - +125

POLYPROPYLENE FILM

SURGE SERIES	APPLICATION/FEATURE	LEAD TYPE	VOLTAGE RANGE (VDC)	CAPACITANCE RANGE (uF)	TEMPERATURE RANGE (C)
SPD	For High Voltage and High Frequency Circuits	Radial	100 - 1000	0.001 - 0.22 mfd	-40 - +105
SPDS	For High Voltage and High Frequency Applications	Radial	1000 - 2000	0.001 - 0.15 mfd	-40 - +105
SPT	For High Frequency Circuits, Tape and Reel for Automatic Insertion	Axial	100 - 1000	0.001 - 0.47 mfd	-40 - +105
SPPY	For High Frequency Circuits, Tape and Reel for Automatic Insertion	Radial	250 - 800	0.001 - 0.47 mfd	-25 - +105

METALLIZED POLYPROPYLENE FILM

SURGE SERIES	APPLICATION/FEATURE	LEAD TYPE	VOLTAGE RANGE (VDC)	CAPACITANCE RANGE (uF)	TEMPERATURE RANGE (C)
SMD	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose	Radial	250 - 630	0.01 - 4.7 mfd	-40 - +105
SMF	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose	Axial	250 - 630	0.1 - 6.8 mfd	-40 - +105
SMPT	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose	Axial	160 - 630	0.01 - 10.0 mfd	-40 - +105
SMPY	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose	Radial	100 - 1000	0.001 - 3.3 mfd	-25 - +105
SPMY	Uniform Size, High Density packaging, Taped for Automatic Insertion, General Purpose	Radial	1000 - 2000	0.001 - 0.068 mfd	-40 - +105

ACROSS THE LINE X2 CAP

SURGE SERIES	APPLICATION/FEATURE	LEAD TYPE	VOLTAGE RANGE (VAC)	CAPACITANCE RANGE (uF)	TEMPERATURE RANGE (C)
MKP	Self-healing Interference Suppression	SMD	250 vac - 275 vac	0.0047 pfd - 1.0 mfd	-40 - +85

RATED WVDC TEMPERATURE DERATING

OPERATING TEMPERATURE	WVDC RATING	OPERATING TEMPERATURE	WVDC RATING
+25°C	100%	+105°C	70%
+85°C	100%	+125°C	50%